

## DIVISION 1 - GENERAL REQUIREMENTS

### 01010 Summary Of Work

These drawings have been prepared from the latest information available on existing conditions. Minor variations may occur in the actual construction.

The Contractor and sub-contractor shall verify all existing conditions and dimensions on the drawings. Notify the Architect of any discrepancies prior to starting or ordering materials.

The work of this project is the remodel/addition of one (1) single-family residence, as shown on these Construction Documents.

The Structural Calculations prepared by the Structural Engineer, shall be a part of these documents with all recommendations incorporated in the Construction Documents.

The Energy Calculations prepared by the Mechanical Engineer, shall be a part of these documents and all recommendations and mandatory compliance requirements included as such.

These contract documents do not contemplate handling or treatment of asbestos and/or any hazardous waste materials. Should any hazardous materials be discovered, the Contractor shall notify the Owner at once by telephone and in writing.

### 01013 Project General Requirements

The Contractor and sub-contractors work shall be in accordance with all applicable federal, state, and local building codes and agency standards.

All construction shall conform to the latest adopted editions of the 2010 California Building Code (CBC) based on the 2004 International Building Code (IBC), the 2010 California Residential Code (2010 CRC), and the 2010 CALGREEN code and all applicable local, state, and national codes, ordinances and laws.

The Architect shall not be held responsible for the means, methods and techniques of construction work, safety in, on or about the project site, or the Contractor's failure to conform to the Construction Documents, codes, regulations, and laws, or for the performance of the Contractor in a timely and satisfactory manner.

All work shall conform to the latest California State Residential Energy Laws.

Product manufacturer's written recommendations, drawings and specifications are to be followed under all conditions. Any changes in drawings and specifications above shall be determined by the Architect with no change in contract price.

All construction materials shall be new.

Provide under-floor ventilation 12"X18" space in each new foundation wall for each 100 square feet of underfloor space. Provide copper mesh screen frame at each opening.

Pending approval of Fire Dept, Provide attic ventilation at eave line to equal not less than 1/80 of area ventilated. Provide metal mesh screen in wood or metal frame at each opening.

All outward swinging doors shall have an exterior landing within 1' of the top of the door threshold. Gork and waterproof under the threshold. Slope landing away from the structure 1/4" per foot.

Prior to the start of any demolition or construction, the Contractor shall inspect and prepare an inventory of all items noted to be relocated or salvaged and verify that these items are in good working condition and able to be relocated. The Contractor shall present this Inventory to the Owner and the Architect for their approval. The Contractor shall be held responsible for replacing any irreplaceable item damaged during the demolition process. Salvaged items shall be the Owner's choosing and shall be the Owner's property.

Coordinate all demolition work with architectural, structural, electrical, mechanical, plumbing and landscaping drawings.

Coordinate inspection and testing with Soils, Structural, Mechanical and Electrical Engineers and with their reports, drawings and specifications.

Soil compaction report shall be provided to the building inspector at the job site prior to placement of concrete for the new foundation if requested by the city.

Refer to structural, mechanical, plumbing and electrical drawings for other General Notes and Requirements and coordinate with architectural drawings.

These Drawings and Specifications imply a COMPLETE building ready and capable of being occupied and used in a normal manner. All light fixtures shall have bails. All exterior doors shall have locks. Street numbers and a mailbox shall be installed. All equipment shall function properly. All surfaces shall be finished. All debris shall be removed and equipment installed shall be new. All work shall be performed to highest standards of quality and craftsmanship.

In case of any difference between Drawings and/or Specifications, discrepancy shall be called to the attention of the Architect and the Architect shall choose which governs. Figured dimensions on drawings shall be determinative over measurements by local.

All requirements, standards, grades, species and strengths of materials and finishes listed in these specifications are minimum. All materials and equipment with specifications, the most resistive and superior quality shall apply.

The Contractor shall be responsible for the accurate placement of the building on the site. Any existing structures, which are not located as shown on the plans, shall be brought to the Architect's attention immediately.

This structure is designed as a stable unit after all components are in place. The Contractor shall be responsible to provide temporary bracing as required to insure the vertical and lateral stability of the entire structure or a portion thereof during construction.

Provide draft stop in the attic space.

Attic space shall not exceed 3,000 sq. ft.

Wood Frame Construction: (minimum, unless noted otherwise).

Bottom plates shall be pressure treated.

All bottom plates shall be anchored to the foundation with 5/8" diameter anchor bolts having 7" minimum embedment (or other approved anchors) at a minimum of 12" from plate ends.

See Framing Specifications or Detail Sheets for the following Information: Nailing Schedule Ripper Attachment (where applicable).

Fire Blocking Notes:

At concealed spaces of stud walls, and partitions, includingurred spaces at the ceiling and floor levels, and at MAX 10 ft. intervals both vertical and horizontal. At the connections between canceled vertical and horizontal spaces such as soffits, dropped ceilings and cove ceilings and tops of framed columns. In concealed spaces between stair stringers, at the top and bottom of the run and between stairs, along and in line of the run of stairs, if the walls under the stairs are unfinished. In openings around vents, pipes, ducts, chimneys, fireplaces, and similar openings, which afford a passage for fire at ceiling and at ceiling and floor levels, use non-combustible materials. At openings between attic spaces and chimney chases for flashing having parallel or staggered studs for sound control shall have fire blocks of mineral fiber, or glass fiber or other material. The integrity of all fire blocking and draft stops, shall be maintained.

Maintain 1-hr fire resistive wall and ceiling construction between the garage and residence for occupancy separation. Per CBC section 706 and table 707.5.4

See Architectural Drawings for Energy Requirements.

Pay legally required sales, consumer and use taxes.

Secure and pay for licenses and inspections, as necessary for proper execution and completion of work, which are customarily secured after start of construction and which are applicable at time contract is awarded.

The Owner shall pay for all permits and fees required for construction and all tests and inspections as required by Drawings and Specifications.

Give notices required by governmental authorities and by the Owner or his/her representative.

The Contractor shall:

Be held responsible for compliance with the California Safety Orders. Contractor shall coordinate all mechanical and electrical equipment as to weights and exact locations with structural supports. In the event that the purchased equipment deviates in height and location from those indicated on the plans, the Structural Engineer must be notified, and approval obtained prior to installation.

Guarantee all work performed by him directly for the period of one year. Work shall include all materials, fixtures, equipment and labor. Such guarantee shall begin on date of filing of Notice of Final Completion.

Install and maintain a phone and fax at the job site for the duration of construction.

Grade the site and slope all grading and concrete work to provide positive drainage away from the building and to area storm drains.

Protect the adjacent properties, including, but not limited to pollution, trash, or damages due to demolition, excavation, construction and/or flooding originating on site.

Shall be responsible for the appropriate "hook-up" to all utilities required to support the work.

Flash and caulk as necessary to achieve a waterproof, watertight building.

The Contractor shall coordinate work with all trades and utilities. Shoring shall be provided where demolition of support structures occurs.

Notify the Architect about any condition requiring a modification or change, before proceeding with the work.

Provide and pay for labor, materials and equipment, tools, construction equipment and machinery, electrical power, water, heat, telephones and other utilities required for construction, and other facilities and services necessary for proper execution and completion of the work.

The Contractor shall investigate, verify and be responsible for all conditions and dimensions of the project and shall notify the Architect of any discrepancies and inconsistencies between drawings, specifications and existing conditions prior to submitting bid.

Verify all dimensions, levels and site conditions prior to the start of construction and report any discrepancies immediately to the Owner's representative. Only noted dimensions are to be used for construction purposes. Obtain verification of dimensions from the Architect when necessary. Do not scale drawings. Errors caused by scaled dimensions shall be corrected by the Contractor at the Contractor's expense.

Notify the Owner's Representative promptly should any questions arise pertaining to the Construction Documents, or if conditions are found that may prevent the proper execution of any portion of the work. The Contractor shall correct all errors, discrepancies, or omissions which result from his/her failure to notify the Owner's Representative before starting fabrication or installation of any item of work.

Maintain on the job site, in good order, one copy of all Construction Documents and modifications thereto. Field test records and inspection reports, correspondence pertaining to the work on site permits and permit sets of plans for the use of building officials.

Maintain a separate set of drawings on site to be marked up by the Contractor with "as-built" information for record.

Deliver to the Owner, upon project close-out, the permit and record (as-built) sets of Construction Documents together with operation and maintenance data, warranties, certificates of compliance required by regulatory authorities, bonds and such other project records as may be requested by the Owner.

Provide minimum five (5) copies of shop drawings and color samples for all fabricated items including all structure, carpentry, finishes, specialties, equipment, furnishings, elevators, mechanical, electrical and plumbing. Submit and pick up from Architect for his approval.

Contractor shall be responsible for complete cleanup including removal of stains, painty marks, paint marks and complete scrub, wax and polishing of surfaces to the satisfaction of the Owner and Architect.

### 01030 Alternates.

Alternates to an item specified herein, must be approved in writing by the Architect or Owner prior to installation.

If the Contractor and/or sub-contractors wish to substitute materials or products other than those specified, he shall obtain the Architect's written approval no later than five (5) working days prior to the bid opening date.

The decision of the Architect as to the equality and utility of substitutions offered shall be final.

### 01070 Abbreviations and Symbols:

Abbreviations and symbols used in the Construction Documents are defined on the sheet where they occur. Any abbreviation or symbol used in the Construction Documents and not defined as stated above shall be verified with the Architect.

### 01300 Submittals:

Submittals of product data, samples, manufacturer's installation instructions and warranties shall be made by the Contractor to the Architect when required by a Section below or as required by the Owner.

## DIVISION 2 - SITE WORK

### 02100 Site Preparation:

In the event that unknown utilities or structures are found during construction at unexposed or exposed locations, the contractor shall stop work in that area and notify the Owner and utility company immediately.

Clear the site of all stumps, roots, debris and other deleterious material to a depth of not less than twelve (12) inches below the ground surface in the area to be occupied by the proposed building(s) or structure(s).

Protect all surrounding surfaces, vegetation and areas that are to remain from dust and damage during construction.

Before starting any work, Contractor shall verify exact locations of existing sewer, water, gas and electrical lines and shall protect from damage.

Protection: Care of Building and Grounds: Provide, erect and maintain such temporary work as may be required for the protection of the public and those employees in or about the building, including temporary fences, sidewalks, bridges, guardrails around openings and trenches, barricades, night lights and guard lights.

Be responsible for all property involved in this Contract including materials, equipment, etc., that may be damaged or stolen, and make good all such damage or loss with no expense to Owner.

Adequately protect all trees and shrubs that are apt to be damaged during this operation. The Contractor shall be liable for any damage to the same and shall make replacement satisfactory to the Owner and without charge.

Protect all streets, sidewalks, roads, and pavements: repair all damage to the same.

Provide all shoring, bracing and sheathing as required for the safety and proper execution of the work. Remove same when work is completed.

### 02200 Earthwork:

All excavation and grading shall comply with OSHA and other governing regulations.

Obtain civil engineering drawings from the Owner or Architect and coordinate work, herein with site work performed by all trades to insure the orderly progress of the total work. Obtain the location and depth of utility lines, all underground work shown in the Construction Documents, all facilities in the vicinity of the Project and any other existing work not specifically indicated, and protect such utility lines, facilities and work from damage.

Excavate for footings neatly to widths and depths indicated and as directed by the soils engineer. Fill over-excavated footings depths with concrete.

Cut trenches for piping and conduits to minimum sufficient widths and depths as shown on site utility drawings by others or as required by the soils report, and to utility company requirements. Backfill trenches as directed by the soils report.

The Contractor shall be responsible for proper drainage away from all buildings and away from the site both during construction and upon completion. Finished grade shall have a minimum slope of 1/4" per foot away from any portion of the foundation for a distance of four feet.

### 02500 Paving and Surfacing:

Paving and surfacing shall be as shown and specified in the Construction Documents, by code or as required by the Owner.

### 02600 Piped Utilities:

Piped utilities shall be as shown and specified in the documents prepared by the Civil Engineer or as required by the Owner.

### 02710 Sub-Drainage System:

Sub-drainage system shall be as shown and specified in the documents prepared by the Civil Engineer, Landscape Architect, and/or Architect or as required by the Owner.

### 02720 Storm Drainage System:

Storm drainage system shall be as shown and specified in the documents prepared by the Civil Engineer, Landscape Architect, and/or Architect or as required by the Owner.

### 02900 Landscaping:

Landscaping shall be as shown and specified in the documents prepared by the Landscape Architect or as required by the Owner.

## DIVISION 3 - CONCRETE 03300

Cast-In-Place Concrete:

This section applies to slabs on grade and footings or grade beams not exceeding 3 feet in height.

Formwork: The Contractor is responsible for formwork design and construction. Construct forms firmly of sound lumber and plywood, to lines and levels indicated. Brace and fasten to withstand superimposed loads. Remove all form boards as soon as concrete has acquired sufficient strength but not later than occupancy of the building.

Reinforcement: Provide all reinforcement as required by the soils report and as indicated on the drawings. Footings, grade beams, stem walls and other reinforced concrete shall have minimum depth, width, anchors and reinforcement as required by the soils report and as indicated on the drawings.

Control Joints: Provide as indicated on the drawings and as directed by the Structural Engineer.

Finish: Steel brovel finish under resilient flooring, wood float elsewhere. Feather to adjacent surfaces a minimum of 6".

Curing: Shall be as required to maintain moisture content of slabs on grade. Inert curing compounds may be used as permitted by Owner's representative, provided that the compound used is compatible with the floor finishes to be installed over the slab.

### 03510 Gypsum Concrete:

Supply and install gypsum concrete floor underlayment as shown on the drawings.

Installation shall be by a factory-approved application in accordance with the manufacturer's written instructions and the requirements of the referenced evaluation.

### 03520 Lightweight Insulating Concrete:

Supply and install lightweight insulating concrete as shown on the drawings.

CONCRETE DESIGNS INC. - SPECIFICATIONS  
SECTION 03400 - ARCHITECTURAL PRECAST CONCRETE - PLANT CAST

**PART 1 - GENERAL**

**SUMMARY**

This Section refers to architectural precast concrete units.

Architectural precast concrete includes the following:

Precast concrete units as defined in the architectural plans. Potentially includes wall caps, columns, balustrade, gable piers, finials, moldings or any other decorative element designed to be cast out of concrete.

These are non-structural, self supporting units.

**SUBMITTALS**

Product data and instructions for manufactured materials and products.

Shop drawings prepared by CDI showing complete information concerning the precast concrete units. Indicate member dimensions and side view. Unless otherwise noted, anchors will be embedded in a standard configuration. Samples - Submit samples of color options and texture options for selection process.

**QUALITY ASSURANCE**

Manufacturer Qualifications: CDI has over 50 years of successful experience in fabrication of architectural precast concrete units. Fabricator has sufficient production capacity to produce, transport and deliver required units without causing delay in the project.

Design modifications will be made only as necessary to meet field conditions and to ensure proper fitting of the work and only as acceptable to the Architect or Project Manager. Maintain general design concept shown without changing or decreasing size of members or altering profiles and alignment shown without architect's approval. Modifications may need to be considered in view of budget constraints.

#### DELIVERY, STORAGE AND HANDLING

Deliver precast concrete units to project site in full quantities and at such times to assure continuity of installation. Schedule for product delivery shall be based on the information provided by the Contractor. Products to be packaged to protect the finish during transport. Precast may be a long lead time item and should be ordered accordingly.

#### PART 2 - PRODUCTS

##### REINFORCING MATERIALS:

Rebar used in some product designs to insure safe handling.

Corrugated Wall Ties - Included in moldings for the mechanical fastener: 22 gauge mill galvanized steel - 7/8" x 1".

Threaded Inserts - Plastic inserts are included in very large castings such as large moldings, columns and stackable column components. These are for mechanical ties and not for lifting purposes.

Adhesives - Latex - modified mortar or equivalent used on a stable substrate in conjunction with the mechanical fastener should be used. White cement can be used to adjust the greenish color created by using the latex mortar. Premium grade construction adhesives which come in tubes should be used for bonding columns and on flat surfaces where latex mortar cannot be used.

##### CONCRETE MATERIALS:

Portland Cement: Type I Portland Cement Gray or Lehigh White

Use only one brand, type and source of supply of cement throughout the project, unless otherwise acceptable to Architect.

Course/Finish Aggregate - Sand and Gravel: Hard, durable, selected and graded, free of material that causes staining or reacting with cement.

Pigments: Nonfading, resistant to time and other alkalis.

Water: Drinkable, free from foreign materials in amounts harmful to concrete and embedded steel.

Air-Entraining Admixtures: Utilize standard mix designs incorporating admixtures which facilitate the workability, curing and strength of the mix.

Compressive Strength: 3500-5000 psi minimum at 28 days.

##### FABRICATION

General: Fabricate precast concrete units complying with manufacturing and testing procedures, quality control recommendations, and following dimensional tolerances, unless otherwise indicated.

Molds: Accurately construct and provide mortar-joint and void sufficient resistance due to vibration pressures due to concrete placing operations and temperature changes. Maintain mold work to provide completed precast concrete units of all shapes, sizes and dimensions indicated, with specified fabrication tolerances.

Dimensional Tolerances of Finished Units: Ornamental architectural precast concrete, being tapered by design, is measured for length, width and thickness at the surface from which the mold is loaded.

Color: Selected from CDI color chart to minimize variations in color.

Surface Finish: Fabricate precast units and provide exposed surface finished as follows:

Traditional - smooth, relatively void free texture.

Modern - Less voids than traditional but not typically void free.

Chamgrobe - Lightly etched texture.

Sonoran - Heavily etched texture exposing more aggregate.

Antique - High irregular, rusticated finish.

Color: Selected from CDI color chart to minimize variations in color.

##### PART 3 - RECOMMENDED EXECUTION OF THE INSTALLATION

The successful installation requires experienced, knowledgeable installers in order to achieve a quality installation. Local building codes should be followed. Considerations for installation include:

Initial precast concrete members plumb, level and in alignment. Provide temporary supports and bracing as required to maintain position, stability and alignment as members are being permanently connected.

Maintain horizontal and vertical joint alignment and uniform joint width as erection progresses.

Anchor units in final position by bolting, welding, grouting, or as otherwise indicated. Remove temporary shims, wedges and spacers as soon as possible after anchoring and grouting are completed.

Cleaning: Clean exposed facings to remove dirt and stains on units after erection and completion of joint treatments. Protect other work from damage due to cleaning operations. Do not use cleaning materials or processes that could change the character of exposed concrete finishes.

##### PART 4 - SETTING THE PIECES

Precast must be installed on a sound substrate with adequate adhesive applied to the bonding surface of each casting. Many substrates are suitable for application of CDI products provided they are clean and strong enough to support the weight of the castings. Fasteners, such as corrugated wall ties or threaded inserts, are included with most CDI products and should be used in conjunction with adhesives. In addition to the fastener, the adhesive should be used to bind the castings to substrate and to each other. Latex-modified mortar produces a strong, permanent bond, and the setting bed formed by the mortar allows for the adjustments needed for seating alignment. A recommended latex mortar adhesive is Custom Gards (Custom Building Products, 1-800-272-8786).

Framing-grade construction adhesives, packaged in tubes and applied with caulking guns, are recommended for bonding column halves and flat surfaces. Sikaflex-163 (Sika Corporation 1-800-495-1452) is widely available.

##### INSTALLING FULL-ROUND COLUMNS

Columns are manufactured and shipped in halves; they are usually installed around structural supports. Threaded inserts are cast into the columns and are used to mechanically attach the columns to the supports. The inserts should never be used to lift the columns. In addition to the inserts, adhesive (such as Sikaflex-163) should be used to bond the two column halves. Nylon strap slings should be used to move the columns into place and to hold them together while the adhesive cures. Care should be taken to avoid marring the surface of the columns.

Solid grouting of the column cavities generally is not recommended as it can complicate the installation, potentially injure the supports, and be used in the grout tends to cause the wall to crack.

When selecting column for applications which require structural supports, carefully view the cavity dimension to determine if the supports will fit.

The method chosen to install column should conform to the local building codes and safe, reliable construction practices.

##### PART 5 - CLEANUP AND SEALING

Precast concrete should be cleaned with masonry cleaners available from masonry specialty suppliers. At no time should acid be used.

Sealing: Sealing is not required for the concrete, depending on your local weather conditions. Sealer information is available from masonry product manufacturers. We suggest testing sealants on samples.

## DIVISION 4 - MASONRY:

### 04220 Concrete:

Unit Masonry Concrete unit masonry shall be as shown on the drawings prepared by the Structural Engineer.

### 04430 Stone Veneer:

Supply and install stone veneer as shown on the drawings. Erect field provisions as instructed by Owner.

Installation of veneer as wall covering shall comply with the applicable provisions set forth of section RT05.

## DIVISION 5 - METALS

### 05120 Structural Steel

Supply and install structural steel as shown and specified on drawings. Conform to additional requirements of the structural drawings and to applicable positions of American Institute of Steel Construction (AISC), Chicago, IL, codes and manuals of American Welding Society (AWS), California Administrative Code (CAC), and all governing codes. Submit shop drawings fully detailing work of this section, including accessories, welding, connections, including minor connections not shown but necessary for complete installation.

Product shall be as follows:

Steel shapes: ASTM A96, A500 or A501

Steel pipe: ASTM A132 Schedule 40 for general use, ASTM A85 Grade B for structural use.

Aluminum: ASTM B208, B221, and B241; Alloy 6063-T5.

Stainless Steel: ASTM A166, Type 302 or 304, with No. 4 satin finish unless otherwise shown.

Bolts & Nuts: ASTM A307

Primer: Lead-free red metal primer, zinc chromate or alkyl type.

Welding: Conform to AWS D1.1, as modified by referenced AISC Standards, and as noted on Drawings.

Weld joints by shielded electrode methods indicated or to contact with smooth surfaces, free of holes, slag, grind exposed welds subject or other defects, flush with adjoining for concealed welds.

Shop Priming: Clean surfaces according to AISC Specifications. Apply shop coat of metal primer to minimum 10 mil dry film thickness. Work primer into joints. Do not prime galvanized metals or items immersed in concrete or masonry. Shop prime all ferrous items not to be galvanized unless otherwise indicated or specified.

Miscellaneous Items: Fabricate items not specifically mentioned according to the Drawings, approved Shop Drawings, and as required to complete the entire work. Galvanize exterior items and shop prime interior items unless otherwise shown or specified.

Grouting: Provide non-shrink grouting for work of this section as shown and required. Conform to manufacturer's directions.

Galvanizing Repair: Wire brush welds and damaged coating to clean bright metal. Apply one coat of galvanizing repair paint where surfaces are corroded or are to be finish painted. Use the specified hot-applied galvanizing repair compound where surfaces remain exposed and unpainted.

Shop Prime Cold Repair: Clean field welds, field bolts, and all damaged shop primer and spot coat of the same primer used for the shop coat. Apply a spot coat of the same primer used for the shop coat.

Fasteners: Provide fasteners and connectors of approved types as required for the installations, whether or not indicated. Provide galvanized fasteners for galvanized items. Items and for exterior use. Installation shall conform to drawings, approved submittals and requirements herein. Obtain necessary permits and information to provide all holes and drilling indicated or required for fasteners. Protect aluminum from contact with dissimilar metals and with concrete or cement plaster by painting the contact surfaces with two heavy coats of bituminous paint, or suitable isolation gaskets, as applicable for each condition.

## 05500 Metal Fabrications

Supply and install miscellaneous metal fabrications as shown and detailed on the drawings.

## DIVISION 6 - WOOD AND PLASTIC

### 06100 Rough Carpentry:

Supply and install rough framing as shown on the structural drawings.

Coordinate all work with the work of other trades. Provide chases, cuts, bracing and blocking required by other trades.

Provide fire blocking at floor, ceiling, eaves and mid-height of walls over 10'-0" in height.

Floor sheathing shall be screwed and glued to floor joists. Existing and new floors where applicable.

All wood within 6" of earth or 1" of concrete shall be redwood or pressure treated.

Product shall be as follows:

Sawn Lumber: Shall be Douglas fir, S4S, and shall bear a grade mark. Use grades as specified for stressed applications and economy grade for blocking, bridging and other non-stressed conditions. Use preservative treated lumber in contact with concrete or masonry.

Sheathing: Shall be plywood or oriented strand board rated by the American Plywood Association (APA), in grades and thicknesses as indicated on the structural drawings. Plywood shall conform to product standard U.S. PS 1, current edition. Sheathing which is to be covered with elasticized deck coping must be plywood.

Hardboard: Shall be Masonite as manufactured by Masonite Corp. Installation shall conform to the written specifications of the manufacturer and to the recommendations of American Hardboard Association.

Nails: Common wire nails, sizes as indicated. Ring-shank nails for plywood on floors.

Bolts and Nuts: ASTM A307 galvanized for exterior exposed use. Provide matching washers.

Framing Connectors: Shall be as manufactured by Simpson Strong Tie Company Inc. Alternates may be used only with prior approval of the Architect.

Contractor shall coordinate soffits framing with the plan to allow adequate space for installation of light fixtures and mechanical equipment.

Installation shall be as shown and specified on the structural drawings, complete with connectors, nailing, bracing, temporary supports, and materials not shown or specified but necessary for a complete job.

### 06180 Structural Glued-Laminated Timber

Supply and install glued-laminated timber as shown on the structural drawings. Provide a certificate of conformance for each timber if required by the Building Official. Deliver, store and handle glued-laminated timbers in conformance with the manufacturers written instructions. Installation shall be as shown on the structural drawings.

Product shall conform to ANSI Standards. Each timber shall be identified with an inspection mark from the American Plywood Association - Engineered Wood Systems (APA-EB), or from the American Institute of Timber Construction (AITC).

## 06190 Wood Trusses

Supply and install wood roof trusses as shown on the structural drawings. Deliver, store and handle trusses in conformance with the manufacturer's written instructions.

Submit shop drawings and engineering calculations to the Architect and Structural Engineer for review and approval prior to fabrication. The calculations shall be stamped and signed by an engineer. Be located in the state in which the project is being built. The truss manufacturer shall provide shop drawings and calculations, as reviewed and approved by the Structural Engineer, to the Building Official prior to fabrication of the trusses or, if required by the Building Official, prior to the issuance of a building permit.

Installation shall be as shown on the truss manufacturer's shop drawings and in conformance with the manufacturers written installation instructions.

## 06195 Manufactured Lumber

Supply and install manufactured joists, beams, and headers as shown on the framing drawings.

Product shall be manufactured by the bear and trademark of, with quality control inspections. No substitution of product is allowable unless permitted in writing by the Structural Engineer.

Installation shall be in accordance with the Residential Products Reference Guide published by Trus Joist. Spans are not to exceed Trus Joist recommended spans based on L/480 live load deflection.

## 06200 Finish Carpentry

Supply and install all interior wood trim, door, casing, shelves, poles and plastic work as shown on the drawings and as directed by the Owner. Field measure for fabricated items prior to fabrication.

Product and finish shall be as selected by the Owner.